MINERS BUSY FILLING ORDERS OF UNCLE SAM FOR WAR MINERALS

and the bureau of mines have been making special investigations as to the minerals which Uncle Sam requires for the war. They are numbered by scores. Some have a part in explosives, some are used in shells and projectiles, othare are indispensible to the airplane and the battleship, and other, have to do with increasing the food supply. In fact, everything connected with the fighting in Europe depends upon mineral resources of one kind or another. The war is a fight of metals as well as men, and the forces that can produce the best combination and can command the raw materials to do so will come out victorious.

The necessity for the principal minerals is well known. We have these in abundance. We were producing 40 per cent of the world's coal output before the war began, and almost threefourths of the petroleum. Nevertheless we had a famine in coal last winter, and there is now a shortage in gasoline. As to iron, which forms the basis for everything in transportation and fighting machinery, 40 per cent of that mineral comes from the United States, and our smelters have been producing half of the world's copper and about one-third of its lead and zinc.

All of these minerals are of enormous value as to the war, but in the use of them to make the best fighting machines other minerals are required, some of which until now we have been importing from various parts of the world. Our output of iron ore last year was 70,000,000 tons, but that used in making high speed tools, ordnance, arairplanes and automobiles had to be mixed with other metals, the names of which are hardly known to the orcobalt and chromium, tungsten and

Vanadium and chromium are employed to make steel hard and tough, and able to resist the shock of an explosion. We have vanadium in some of the ores of Colorado and Utah, but the most of our supply comes, from up in the Andes within a short dis- steel tool. tance of the great silver and copper

sixth as much as Peru.

plate, and is one of the metals specified in certain parts of the liberty motor. Crome steel can be made so that it will not rust, and altogether it is so valuable as a military metal that the bureau of mines recommends that the government provide for at within the past two or three years nearly all of our chromium came from producing thousands of tons, the most of which comes from Shasta and Fresno counties, California. We have the rope. The most of the product went metal in Oregon and other Western to the Krupp steel works at Essen. states as well, and some has been quarried near Baltimore, Md.

As to uranium the Germans have for some military purpose which has in connection with tungsten in combination with which it is valuable as a ferro-alloy. The stuff brings about \$7.50 a pound or \$15,000 a ton. We have the largest deposits in existence and are using it to make high speed

A metal which is of much the same class as those above mentioned ,and perhaps the most important of all is tungsten. Its value was known before mor plate and the stronger parts of the war in Europe began, but since then it has become almost indispensable and the price has risen from \$360 to \$6,000 a ton. Tungsten is used in dinary reader. Among these are shells and projectiles, but its chief molybdenum, vanadium and uranium, value is for making high-speed tool steel. It is estimated that one man equipped with the carbon steel tools working a single machine can do as much work as five men with five machines equipped with the carbon steel tools that formerly were used. One of the makers of cheap automobiles says that his company would have to add Colombia and from California, Nevada porting two distinctive agencies, one Peru, whose yearly output is about \$200 to the price of each automobile and Wyoming, where it is known to of men and one of women; and this 3,000 tons. The chief mines are high if it had to use the old-style carbon

The metal is used also for filments deposits of Cerro de Pasco. I visited in electric and incandescent lamps. It them during my last trip to the Andes. can be drawn out into wires one-They were owned originally by an eighth as thick as a human hair and Italian, but were sold by him to capi- almost as fine as the finest strand of talists in Pittsburg, who now control a cobweb. By tungsten filaments one

tric light as formerly cost him \$1, and GEORGE FANCHER TAKEN the light is better. It takes a very small portion of the metal for each light and the saving runs into the hundreds of millions of dollars a year.

Tungsten is valuable in speed tools because it melts only at 5,900 degrees WASHINGTON, D. C., Sept. 13 .- the chief suorce of the world's sup- Fahrenheit. Such tools will bend on automobile axles and springs. It is order to maintain and increase the to attend him. used for cannon linings and in armor output of steel parts needed for muequipment.

that came to this country in 1916, sister, Mrs. L. M. Harris,, and is least one year's reserve supply. Until bringing a cargo of dyes, took back greatly improved, although he will in Before the war Germans got almost for some time to come. British South Africa and the French all of this metal from the British posislands of the Pacific but now we are sessions and they owned also mines in Argentina. The ore was smelted in Germany and sold to the rest of Eu-

Today the United States is the largest producer of tungsten ore in the world, making about one-fifth of taken all of that metal they can find all that is mined. Principal deposits and are using it in their steel works are in Arizona, California, Colorado, Idaho, New Mexico, Nevada, S Danot yet been discovered. It is probably kota and Alaska, the richest and most valuable of all being in the Moal is produced also in Burma, Bolivia, ies today. contact points.

exist in small quantities.

Advertised Letters

The following letters remain uncall-19, 1918.

Tonin, M. A. Davis, L. P. Mitchell, M. L. Boone, David T. Manyon, Bert Wagner, C. C.

Wallapai Mining District in Mohave country.

Sabbath Bell mining claim in book tion.

SABBATH BELL CONSOLIDATED friends.

ILL-BROUGHT TO KINGMAN

George Fancher was suddenly taken so seriously ill last Tuesday in the The United States geoliogical survey ply. We are now producing about one cutting when red hot, and they can mountains west of his Sandy Windmill be speeded enormously. The metal Ranch, that parties with him immedi-The Germans are using chromium has a tensile strength of more than ately had him removed to the ranch also to make up their shortage of site materials and it realso to make up their shortage of sists rust and acid. It is absolutely ing and partly by wagon) and Doctor making hard cutting tools and for essential to us in this time of war in White was summoned from Kingman

The immediate illness was a hemornitions and for military and naval age caused by an internal injury, resulting from the pitching of a bad Before the war began tungsten was horse with which he had had an experused largely in Germany but the sup- ience some ten days back. He was ply began to play out before we came brought to town the following morn-The Deutschland, the submarine ing and is now at the residence of his a cargo largely made up of tungsten. all probability, be confined to his bed

NEW FIELD DIVISION OF COUNCIL OF DEFENSE

BY FRANKLIN K. LANE Secretary of the Interior and Chairman of the new Field Division of the Council of National Defense

The new field Division of the Couniave desert of California. The miner- cil of National Defense begins its dut-

Portugal and Australia. It takes but a This section was created by the mall amount of tungsten to each ton Council of National Defense is to orof steel, and the world supply is not ganize and arouse the opinion and the arge. The metal is used also in igni- energy of the country upon war work, ion systems, in telegraphy, and as a It is to move through the State Counsubstitute for platinum, as electrical cils and subsidiary organizations down to the heart of the Nation, its core, the As to platinum itself, this is now small community. It is an amalgamne of the most valuable metals on ation of those organizations which earth. It is worth twice as much as have hitherto made this effort-the gold before the war began, and it is State Section of the Council and the low worth five times its weight in Woman's Committee-and all the far the metal. The most of the world's reaching agencies of both are incorporsupply has come from Russia, and be- ated as a part of its machinery. It ore the war the Russian output was is intended to be the connecting link controlled by a French syndicate between the National Council and the which brought the platinum to France citizen. Since the war began this and sent it out from there. When the connection has been maintained war came the Russian mines broke through the two organizations which down, and from now on they will be are now merged; but it has become in the hands of the Germans. We shall more manifest with each passing have to get our additional supply from month that there was no sense in supwas recognized earliest by the State Councils which took the women of the country into their directorates and gave them full part in their works. In all states this is not true, and in one or two it is perhaps legally impossible ed for at the Post Office at Kingman, at present, but it is hoped and expect-Arizona, for the week ending October ed that this policy of joint action shall be, wherever possible, adopted. The part which women are playing in this war, and the increasing part which they are taking in making it possible to maintain it, make this consolidation no more than the recognition of a fact -all men and women are making, and

fort. Under the new plan of organization called for within two weeks, they will Dr. Anna Howard Shaw becomes the Vice-Chairman, Grosvenor B. Clarkson Secretary of the Council of National Defense and the Advisory Committee, becomes Director of the new Field Division, with Miss Hanna Patterson, Resident Director of the Woman's Committee, Associate Director.

are to make, common sacrifice and ef-

The work of the Field Division will fall under six heads: The Federal Agency Section, under John S. Cravens. will have charge of all work relating to Government Departments and Federal Agencies requiring the aid of the Field Division and the Nationwide Defense organizations that reach out into every community in the country.

The organization and information section, headed by Elliott D. Smith, will have charge of general planning and the advising of State Councils as to organization methods and the best methods of carrying on their work.

There is also being created a Field Staff, the members of which will be the executive connecting link between the Field division and the particular group of states allotted to each member of this staff.

Under the direction of Mrs. M. E. Martin, there is being created the Americanization Section which will undersigned will not be responsible for handle the dissemination of educationany debts of said B. T. Hickman operat- al information, paying special attening or working said mines or mining tion to the problems of Americanizaclaims under said lease and option con- tion. This section will also take over the work in educational propaganda The names of said mines or mining formerly handled by the "Woman's claims are: Sabbath Bell and Hurrah Committee, and will mobilize and stim-Fraction, all situate, lying and being in ulate the spiritual resources of the

A Speakers' Section, under the direction of Fredrick L. Allen, will obclaims being duly recorded in the Mining tain, organize, and route speakers of note throughout the country; while corder of said Mohave County, State of Dr. Jessica B. Peixoto will be in charge of the Child Conservation Sec-

Marion Binford returned from the "TT" at page 102, to which books and coast the latter part of this week afpages reference is hereby made for a ter a couple of months vacation there.

> Neil Culhane came in from the Leviathan Mine last Tuesday to attend the funeral of the late Dan Boyle and is spending a few days in town with

J. C. Barrett, a Santa Fe employe By EDWARD J. HOOVER, from Needles visited here this week Its President from that city.

Hardware Department

These Crimpy mornings are the forerunner of Win-We offer for Winter Comfort.

Victor Air Tight Heaters-Wood or Trash Burners. No. 016, \$2.25 No. 16, \$2.60 No. 018, \$2.20 No. 18, \$2.75 No. 22, \$3.75 No. 20, \$3.25 To keep your Bath Room Comfortable and to Warm Those Cold places in the Home. THE FAMOUS PERFECTION OIL HEATERS. No. 520, \$6.25

No. 560, \$8.50 FLORENCE OIL HEATERS at\$5.75 each

Our line of

COAL AND WOOD BURNING HOUSE AND STORE HEATERS ARE ALL WELL KNOWN LINES

Coles Hot Blasts—No. 12, \$20.00 — No. 15E, \$25.00 No. 16 E, \$26.50

Aetna Hot Blasts, No. 712, \$15.50-No. 714, \$19.50 Wilson's Hot Blasts, No. 312 Enders Oak Heaters, No. 211, \$10.25—No. 213, \$12.65

GEM HOT BLAST HEATERS

This stove is a Winner. A coal saver and a good looking stove.

No. 13, \$19.50 No. 11, \$18.75 No. 15, \$22.00

TRILBY OAK HEATERS—

No. 550, \$9.00 each No. 650, \$12.25 each BANNER HOT BLASTS— No. 212, \$18.50 No. 214, \$22.50 No. 218, \$25.75 Stove Boards — Stove Pipe — Stove Pipe Ells — Coal Hods — Coal Shovels — Stove Pokers Stove Shakers — Stove Polish

We order for you Stove Repairs for any Stove made.

Stove Enamel-Stove Pipe Collars.

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Groceries

HOOVER SAYS SAVE SUGAR—

We have just received some of the finest Mountain Honey. Well strained and excellent flavor. In 5 pound tins .. \$1.50

TEA GARDEN JAM—No. 2 TINS Loganberry 40c Plum Blackberry 40c Orange Marmalade 40c Peach 40c Apricot NO. 1 TINS 25c Damson Plum Loganberry Raspberry 30c Apricot 25c Strawberry Peach "DEL MONTE" JAMS-No. 2 TINS Apricot Loganberry 35c 35c Peach Raspberry 40c Plum ...

Orange Marmalade 35c Blackberry 35c JUST A FEW LEFT "Hunt's Staple" No. 2 1-2 Tins, ____per can ___per doz.

Peaches Apricots \$2.25

.30c Asparagus, Quail brand-No. 2 1-2 Tin 20c Pilsbury Vitus, per package Cream of Wheat, per package

HELP AVOID THE "FLU"

Listerine, Small Bottle Listerine, Medium Bottle Listerine, Large Bottle

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The all wool kind, at last year's price. Chilly days are coming-better be \$15.00 prepared

Extra good Corduroy Trousers. Special . . , \$4.50

Other Trousers \$3.00 to \$6.50

This Weeks' Shoe Special

The Petaluma Work Shoenothing better at any price \$6.00

Lambs Wool Heavy Under wear, our price the suit . . \$5.00

Today We Announce

The arrival of our Fall Stetson Hats---Better hurry,

In the Service of Old Glory

The Mary And Control of the Control "Selow is the list of Mohave county men who have answered the nation's call and are serving in the various branches of the U. S. army and navy. He Mineral Wealth does not claim this list to be complete, but hopes that the names of all those in the service from Mohave county will appear under the above heading before long. Anyone knowing of additional names will confer a favor upon the man in the service, his friends and relatives, and the Mineral Wealth by filling in the coupon below and sending it to this office.